

Features

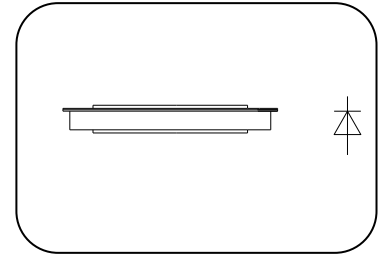
- Optimized for high current rectifiers
- Very low threshold voltage and slop resistance
- Very low thermal resistance

$I_{F(AV)}$ 7100 A
 V_{RRM} 200~400 V

Typical Applications

- High current application For Welders up to 1000Hz
- Electrode plating

I_{FSM} 55 kA
 I^2t 15000 10^3A^2S



SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Double side cooled, $T_C=85^{\circ}C$	175			7100	A
V_{RRM}	Repetitive peak reverse voltage	V_{RRM} tp=10ms $V_{RSM}=V_{RRM}+100V$	175	200		400	V
I_{RRM}	Repetitive peak current	at V_{RRM}	175			50	mA
I_{FSM}	Surge forward current	10ms half sine wave	175			55	kA
I^2t	I^2T for fusing coordination	$V_R=0V_{RRM}$				15000	A^2s*10^3
V_{FO}	Threshold voltage	$I_{FM}=5000-15000A$	175			0.74	V
r_F	Forward slop resistance					0.025	m Ω
V_{FM}	Max Peak on-state voltage	$I_{FM}=5000A, F=30kN$	25			1.05	V
Q_{rr}	Recovery charge	$I_{FM}=1000A, tp=2000\mu s, di/dt=-20A/\mu s, V_R=50V$	175			400	μC
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine- double side cooled Clamping force 30.0kN				0.010	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heat sink					0.005	
F_m	Mounting force			20	30	40	kN
T_{stg}	Stored temperature			-40		175	$^{\circ}C$
W_t	Weight				150		g
Outline	P56						

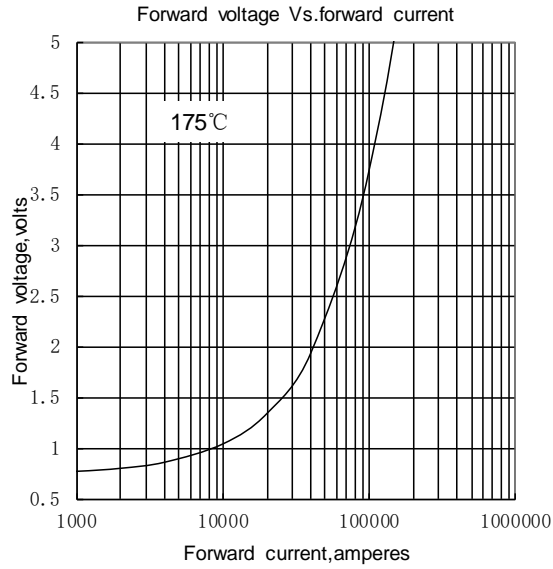


Fig.1

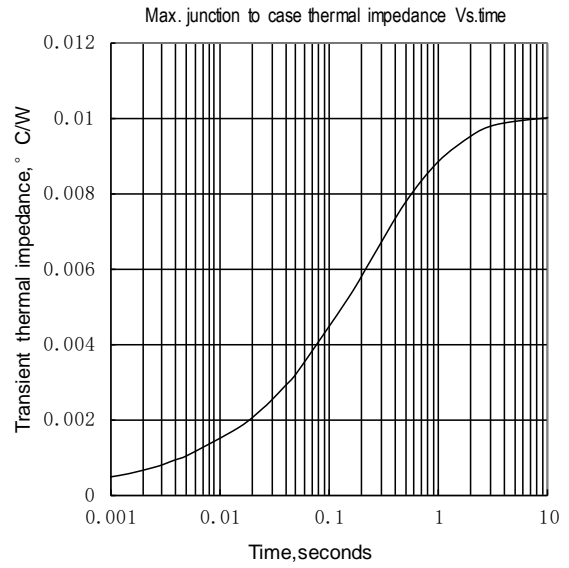


Fig.2

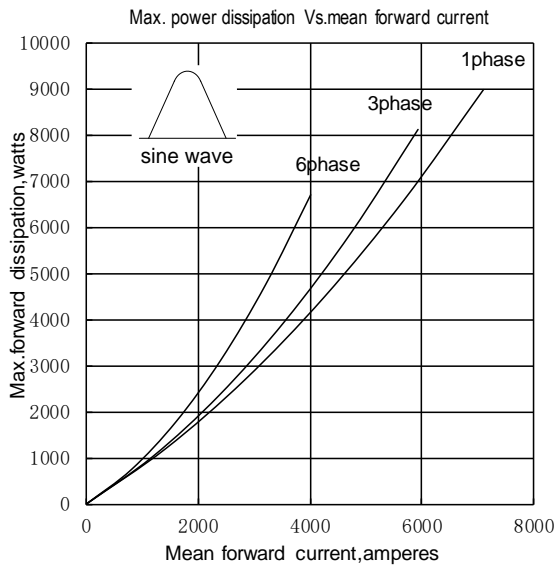


Fig.3

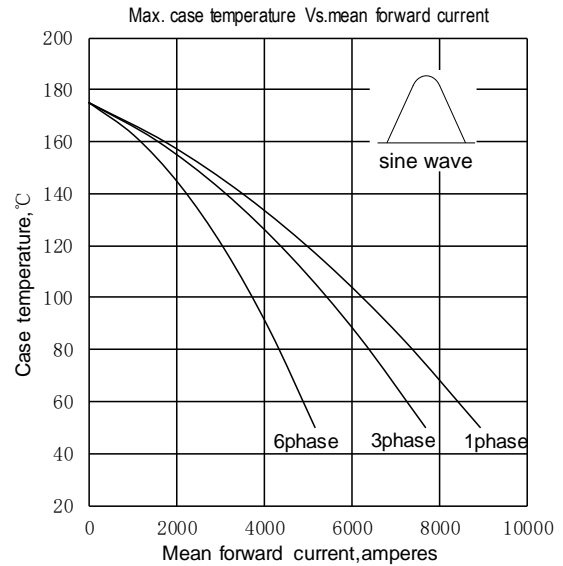


Fig.4

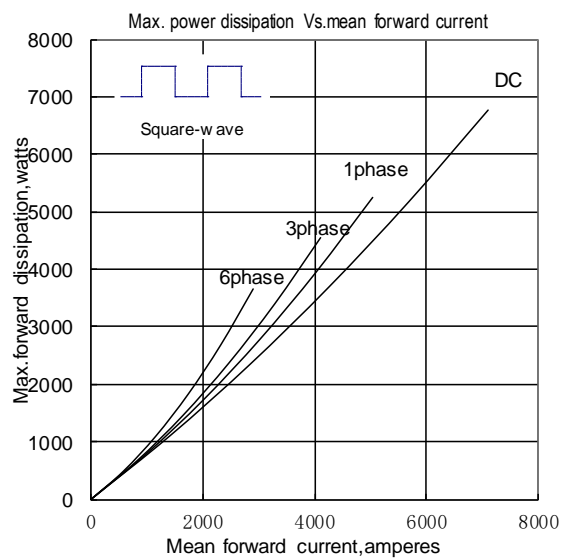


Fig.5

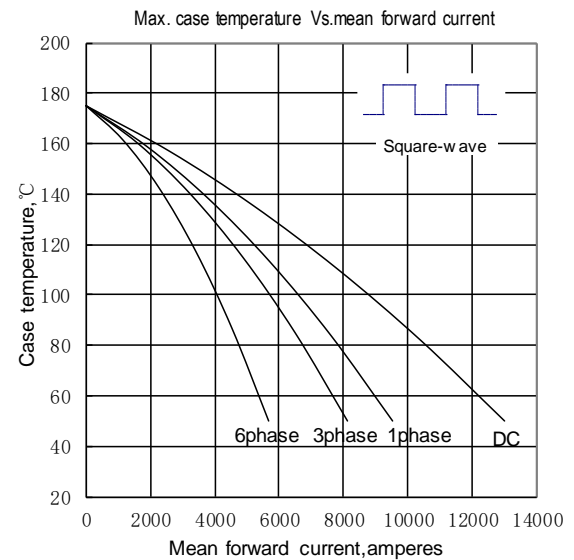


Fig.6

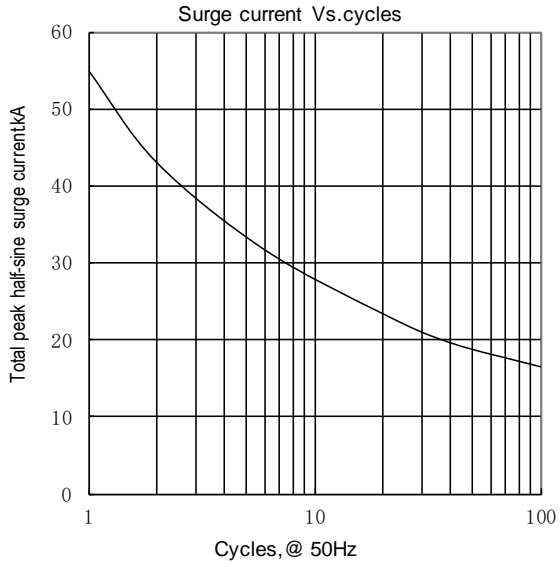


Fig.7

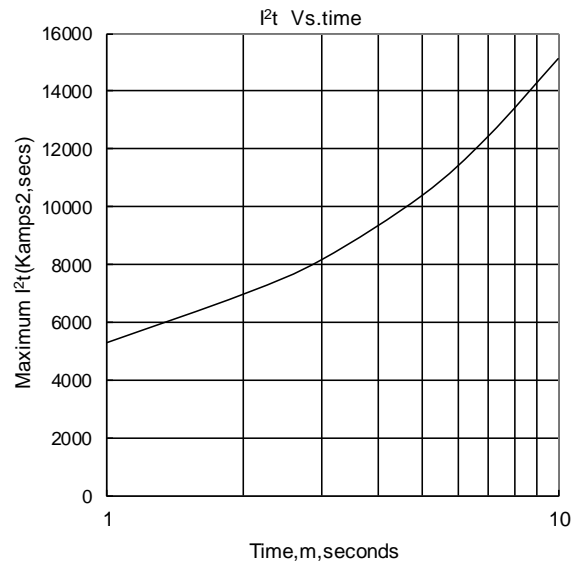


Fig.8

